WATER BOARD 2017 SPRING TREATMENT SUMMARY FOR APRIL 3 – APRIL 10, 2017

Prepared by Water Board personnel, April 10, 2017.

During the time period of April 3, to April 10, 2017, the Water Board's contractor, TKT Consulting LLC (TKT), continued to perform 2017 Spring Treatment activities at Leviathan Mine. TKT continued siphoning AMD from Pond 2 South to Pond 3 and neutralizing the AMD with the Rotating Cylinder Treatment System (RCTS). TKT discharged neutralized AMD to Leviathan Creek on April 3rd, 5th, 7th, and 9th. 2017 Spring Treatment discharge volumes can be seen in Table 1.

From April 3, to April 6, 2017, U.S. Forest Service (USFS) Road 31052 from U.S. Highway 395 to approximately the hairpin turn above the confluence of Aspen and Leviathan Creeks was mostly packed dirt with some small areas of rutting caused by storm water runoff. Beyond the hairpin turn the road was muddier with some minor rutting. On April 7, 2017, rain and snow moved into the area which made the road muddier. On April 8, 2017, the site received approximately 12-inches of snow and the road from approximately the California-Nevada state line to the site became covered in snow. At all times the road remained passable with a four-wheel-drive vehicle. No damage to the roadbed occurred due to travel on the road during this time period. Water Board personnel have been in contact with USFS personnel to keep them apprised of road conditions.

Conditions onsite during this time period remained extremely challenging. Morning temperatures were below freezing and often warmed significantly during the day. April 7th and 8th were particularly challenging as the snow and rain were heavy at times. Areas where snow removal occurred remained muddy making work and travel difficult. Unplowed areas of the site remained mostly covered by 1-3 feet of snow and continue to necessitate a large amount of labor carrying equipment by hand. The snow deposited on April 7th and 8th began to melt on April 9th making the site very muddy. Pond 3 remained ice free through April 7th but became partially ice covered on April 8th. TKT continued to use multiple pumps to expedite the mixing process. Ponds 1, 2 North, and 2 South remained mostly ice covered. See photos 1-4.



Photo 1 – TKT neutralizing AMD in Pond 3 with the RCTS



Photo 2 – TKT neutralizing AMD in Pond 3 with the RCTS, heavy snow



Photo 3 – Siphon from Pond 2 South into overflow structure to Pond 3 and RCTS

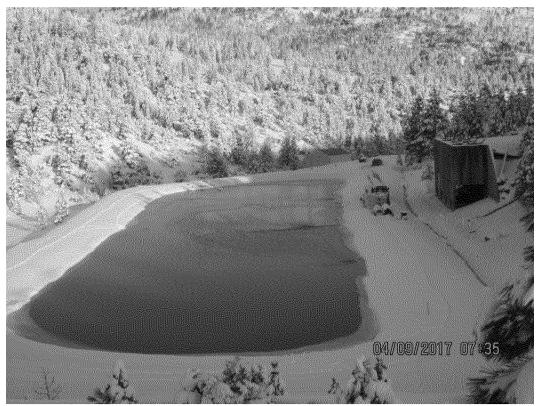


Photo 4 – TKT neutralizing AMD in Pond 3 with the RCTS following the April 7^{th} and 8^{th} storm

Additional sample results for untreated pond water samples and discharge samples became available and have been added to Tables 2 and 3. TKT continued to collect untreated pond water samples and discharge samples as necessary; analytical results for these samples are still pending and will be added to Tables 2 and 3 when they become available.

The valve that allows AMD to enter Pond 1 remains closed. Pond 1 was isolated on March 20, 2017 because less than one inch of remaining freeboard was available. AMD from the Adit and Pit Underdrain continue to be conveyed to Ponds 2 North and 2 South. The USGS measurement of Pond stage listed as "Pond 1 Stage" currently measures the stage in Ponds 2 North and 2 South since Pond 1 is isolated. The stage of water contained in Pond 2 North and 2 South, as measured by the USGS and described above, can be seen on Figure 1. Additionally, Water Board and TKT personnel have begun collecting manual measurements of Pond 2 South freeboard. These manual measurements can be seen in Table 4 and appear to better represent actual site conditions than the USGS measurement viewed online due to the effect of ice on the ponds. The elevation of water contained in Pond 2 South, as of April 10, 2017, is immediately below the overflow elevation. If Pond 2 South were to overflow, the overflow would be conveyed directly to the RCTS for treatment as occurs with the current siphon lines. The available freeboard in Pond 2 North as of April 10, 2017 is approximately 0.08 feet. The combined flow of AMD from the Adit and Pit Underdrain (PUD) as of April 10, 2017 is approximately 107 gallons per minute which is an increase of approximately 22 gallons per minute from the combined flow observed one week ago.

The Water Board's contractor, TKT, intends to continue AMD neutralization in Pond 3 throughout the upcoming week. A chance of rain and snow showers is forecasted for later in this week. Water Board personnel will continue to visit the site throughout the upcoming week and prepare the next 2017 Spring Treatment summary on April 17, 2017.

Table 1
2017 Spring Treatment, Leviathan Mine
Pond 3 Estimated Discharge Volume

| | Estimated Discharge |
|-----------|---------------------|
| l | 1 |
| Date | Volume (gallons) |
| 3/4/2017 | 380,000 |
| 3/10/2017 | 430,000 |
| 3/13/2017 | 326,000 |
| 3/16/2017 | 430,000 |
| 3/18/2017 | 467,000 |
| 3/20/2017 | 394,000 |
| 3/22/2017 | 429,000 |
| 3/24/2017 | 371,000 |
| 3/26/2017 | 399,000 |
| 3/28/2017 | 363,000 |
| 3/30/2017 | 394,000 |
| 4/1/2017 | 338,000 |
| 4/3/2017 | 359,000 |
| 4/5/2017 | 339,000 |
| 4/7/2017 | 428,000 |
| 4/9/2017 | 511,000 |

Total Spring Treatment Discharge

Volume 6,358,000

Table 2
2017 Spring Treatment, Leviathan Mine
Untreated Pond Water Sample Results

| | | SAMPLE | | TEMP | | | | | | | | | | | | | | | | Sulf | fate | Total Dissolv | /ed |
|------------|-------------------------------------|-----------------|-----------------|------|--------------|--------------|--------------|--------------|--------------|----------|-------|--------------|--------------|---------------|--|--------------|-------------|---------------|---------------|--------|----------|---------------|--|
| SAMPLE ID | Sample Description | DATE | рН | (°C) | Aluminum | Arsenic | Cadmium | Calcium | Chromium | Coba | | Copper | Iron | Lead | Magnesiun | n Manganes | e Nicke | el S | elenium | (as s | SO₄) | Solids | Zinc |
| | y Maximum Discharge Cr | | 6.0 - 9.0 NP | | 4 | 0.34 | 0.009 | NP | 0.97 | NP | | 0.026 | 2 | 0.136 | NP | NP | 0.84 | | NP | | IP. | NP | 0.21 |
| USEPA 4-D | ay Average Discharge Cri | teria | INF | | 2 | 0.15 | 0.004 | NP | 0.31 | NP | | 0.016 | 1 | 0.005 | NP | NP | 0.094 | + - | 0.005 | I N | IP | NP | 0.21 |
| | | | | | Result DQ EQ | Result DQ EQ | Result DQ EC | Result DQ EQ | Result DQ EQ | Result I | DQ EQ | Result DQ EC | Result DQ EC | Q Result DQ E | Q Result DQ | EQ Result DQ | EQ Result D | DQ EQ Res | ult DQ EC | Result | DQ EQ | Result DQ | EQ Result DQ EQ |
| | Untreated water in | 0 10 1 10 0 1 7 | | | | | | 0.5.0 | ND, | | | | | | | | | | | | | | |
| 001P3001 | Pond 3 Untreated water in | 2/24/2017 | 4.27 | 1.74 | 7.5 L | ND, 0.001 | 0.004 | 95.3 | 0.005 | 0.145 | L | 0.086 | 0.30 | ND, 0.001 | 21.1 | 0.869 | 0.332 | 0.0 | J2 | 362 | Ъ | 513 | 0.10 |
| 001P1002 | Pond 1 | 2/24/2017 | 3.05 | 0.09 | 36.2 D | 0.188 | 0.004 | 90.4 | 0.075 | 0.22 | D | 0.127 | 36.3 | ND, 0.001 | 7.6 | 1.24 | 0.577 | 0.0 | 01 | 587 | D | 789 | 0.13 |
| | Untreated water in | | 1.15.12 | | 1100 | | | | | | | | | | 1 | 1 | | | | | | | |
| 003P2S004 | Pond 2 South | 3/7/2017 | 2.23 | 0.30 | 98.7 D | 0.894 | 0.009 | 53.2 | 0.236 | 0.550 | | 0.341 | 147 | ND, 0.001 | 12.5 | 2.99 | 1.47 | 0.0 | 02 | 1140 | D | 1680 | 0.29 |
| 004P2S006 | Untreated water in Pond 2 South | 3/10/2017 | 2.69 | 0.0 | 67.9 | 0.403 | 0.007 | 39.8 | 0.170 | 0.425 | | 0.253 | 88.7 | ND, 0.001 | 10.3 | 2.20 | 1.12 | 0.0 | ne | 868 | | 1240 | 0.22 |
| 004723000 | Untreated water in | 3/10/2017 | 2.03 | 0.0 | 07.5 | 0.403 | 0.007 | 35.6 | 0.170 | 0.423 | + | 0.233 | 88.7 | 110, 0.001 | 10.3 | 2.20 | 1.12 | 0.0 | ,,, | 808 | | 1240 | 0.22 |
| 006P2S008 | Pond 2 South | 3/14/2017 | 2.63 | 0.0 | 68.9 D | 0.256 | 0.007 | 38.8 | 0.180 | 0.417 | | 0.277 | 75.8 | ND, 0.001 | 9.9 | 2.18 | 1.08 | 0.0 | 02 | 718 | D | 1110 | 0.20 |
| | Untreated water in | | | | 7.7 | | | | | | | | 217 | | | | | NE | · I I | | | | |
| 008P2S010 | Pond 2 South | 3/17/2017 | 2.50 | 0.0 | 40.9 L | 0.06 | 0.004 | 23.6 | 0.087 | 0.223 | | 0.148 | 36.3 | ND, 0.001 | 5.8 | 1.18 | 0.582 | 0.0 | 01 | 450 | D | 644 | 0.12 |
| 010P2S012 | Untreated water in Pond 2 South | 3/19/2017 | 2.59 | 0.0 | 30.8 L | 0.035 | 0.003 | 17.0 | 0.064 | 0.171 | | 0.118 | 24.5 | ND, 0.001 | 4.4 | 0.877 | 0.442 | 0.0 | 02 | 342 | D | 469 | 0.09 |
| | Untreated water in | -,, | | | | | 1 | 1 | | | | | | , | | 1 | | NI NI | | 1 | | | |
| 012P2S014 | Pond 2 South | 3/21/2016 | 2.36 | 0.0 | 22.3 L | 0.027 | 0.002 | 14.0 | 0.045 | 0.123 | | 0.085 | 17.5 | ND, 0.001 | 3.1 | 0.649 | 0.318 | 0.0 | 01 | 245 | | 351 | 0.06 |
| 013P2S016 | Untreated water in Pond 2 South | 3/22/2017 | 2.83 | 0.0 | 25.0 L | 0.077 | 0.003 | 15.4 | 0.058 | 0.145 | | 0.100 | 25.9 | ND, 0.001 | 3.9 | 0.821 | 0.388 | 0.0 | | 286 | | 395 | 0.08 |
| 013723016 | Untreated water in | 3/22/2017 | 2.03 | 0.0 | 23.0 L | 0.077 | 0.003 | 15.4 | 0.038 | 0.143 | + | 0.100 | 23.9 | ND, 0.001 | 3.9 | 0.821 | 0.300 | NI | | 200 | 0 | 393 | 0.08 |
| 014P2S018 | Pond 2 South | 3/24/2017 | 3.03 | 0.0 | 20.6 L | 0.032 | 0.002 | 13.1 | 0.047 | 0.127 | | 0.089 | 17.8 | ND, 0.001 | 3.2 | 0.687 | 0.334 | 0.0 | · I I | 231 | | 308 | 0.07 |
| | Untreated water in | | | | | | | | | | | | | | | | | N | · I I | | | | |
| 015P2S020 | Pond 2 South Untreated water in | 3/26/2017 | 2.97 | 0.0 | 30.6 L | 0.059 | 0.003 | 18.7 | 0.059 | 0.152 | _ | 0.107 | 25.4 | ND, 0.001 | 4.0 | 0.830 | 0.414 | 0.0 NI | | 323 | D | 438 | 0.08 |
| 016P2S022 | Pond 2 South | 3/28/2017 | 2.93 | 0.0 | 29.3 | 0.088 | 0.003 | 18.8 | 0.071 | 0.163 | | 0.114 | 30.8 | ND, 0.001 | 4.5 | 0.934 | 0.438 | 0.0 | | 293 | D | 419 | 0.09 |
| | Untreated water in | | | | | | | | | | | | | | 1 1 | | | N |), | | | | - - - - - - - - - - |
| 017P2S024 | Pond 2 South | 3/30/2017 | 2.32 | 0.0 | 48.2 | 0.406 | 0.004 | 30.3 | 0.113 | 0.259 | | 0.173 | 72.9 | ND, 0.001 | 7.7 | 1.53 | 0.677 | 0.0 | 01 | 569 | D | 778 | 0.14 |
| | Untreated water in Pond 2 South, | | | | | | | | | | | | | | | | | l l NE | , | | | | |
| 017P2D025 | Duplicate Sample | 3/30/2017 | 2.32 | 0.0 | 48.1 | 0.426 | 0.004 | 25.9 | 0.119 | 0.262 | | 0.180 | 72.1 | ND, 0.001 | 7.3 | 1.50 | 0.706 | 0.0 | ' I I | 567 | D | 780 | 0.14 |
| | Untreated water in | | | | | | | | | | | | | | 1 | 1 | | NI |), | 1 | | | - - - - - - - - - - |
| 018P2S027 | Pond 2 South | 4/1/2017 | 2.83 | 2.4 | 31.0 | 0.238 | 0.003 | 18.8 | 0.079 | 0.190 | | 0.130 | 46.6 | ND, 0.001 | 5.1 | 1.03 | 0.505 | 0.0 | | 377 | D | 523 | 0.10 |
| 019P2S029 | Untreated water in Pond 2 South | 4/3/2017 | 2.89 | 1.6 | 12.5 D | 0.052 | 0.001 | 9.8 | 0.030 | 0.080 | | 0.055 | 15.8 | ND, 0.001 | 2.1 | 0.410 | 0.19 | D 0.0 | | 146 | | 279 | 0.04 |
| 013623023 | Untreated water in | 4/3/201/ | 2.03 | 1.0 | 12.3 | 0.032 | 0.001 | 5.0 | 0.030 | 0.080 | + | 0.033 | 13.0 | 140, 0.001 | 2.1 | 0.410 | 0.19 | 0.0 |) <u>.</u> | 140 | \vdash | 213 | 0.04 |
| 020P2S032* | Pond 2 South | 4/5/2017 | 2.56 | 2.11 | | | | | | | | | | | | | | | | | | | |
| | Untreated water in | | | | | | | | | | | | | | | | | $\neg \vdash$ | | | | | |
| 021P2S033* | Pond 2 South | 4/7/2017 | 2.62 | 0.00 | | | | | | | | | | | + | + | | + | ++ | | | + | \longrightarrow |
| 022P2S034* | Untreated water in Pond 2 South | 4/9/2017 | | | | | | | | | | | | | | | | | | | | | |
| 0221 23034 | 1 5114 2 354til | -1, 5, 2011 | | | | | | | | | L | | | | | | | | | | | | |

All values reported in milligrams per liter (mg/L) except pH which are in Standard Units and temperature which are in the units specified above.

All parameters are dissolved except Selenium which is total recoverable.

All results are preliminary

NP - Not Promulgated

NA - Not Analyzed

* - Analytical results pending

Sample result exceedes USEPA Daily Maximum Discharge Criteria

Data Qualifiers (DQ) from the Laboratory:

- D Analyte reporting limit increased due to sample matrix
- L Lowest available reporting limit for the analytical method used
- ND Not detected at the reporting limit, number following ND represents the reporting limit

Tables Page 2 of 3 Water Board 2017 Spring Treatment

Table 3
2017 Spring Treatment, Leviathan Mine
Pond 3 Discharge Sample Results

| | | SAMPLE | | TEMP | 1 | | I | | | | | | | | | | | | Sulf | - | Total Dissolv | ad be |
|---|--------------------------------------|-------------|-----------|-------------|--|--|--|--|--------------|--------------|--------------|--|--|--|--|--------------|---|------------|----------|----------------|--|--|
| SAMPLE ID | Sample Description | DATE | рН | (°C) | Aluminum | Arsenic | Cadmium | Calcium | Chromium | Cobalt | Copper | Iron | Lead | Magnesium | Manganese | Nicke | 1 | Selenium | (as S | | Solids | Zinc |
| USEPA Daily f | Maximum Discharge Cr | itoria | 6.0 - 9.0 | <u> </u> | 4 | 0.34 | 0.009 | NP | 0.97 | NP | 0.026 | 2 | 0.136 | NP | NP | 0.84 | | NP | N | 4, | NP | 0.21 |
| USEPA 4-Day Average Discharge Criteria NP | | | - | 2 | 0.15 | 0.004 | NP | 0.31 | NP | 0.016 | 1 | 0.005 | NP | NP | 0.09 | | 0.005 | N N | | NP | 0.21 | |
| | , | | | | | | | | 1111 | | 1111 | 1 | 1 1 | | | + | | | | | 111 | |
| | | | | | Result DQ E | Q Result DQ EQ | Result DQ EQ | Result DQ EQ | Result DQ EQ | Result DQ EQ | Result DQ EQ | Result DQ EQ | Result DQ EQ | Result DQ EQ | Result DQ E | Q Result [| Q EQ R | sult DQ E0 | Q Result | DQ EQ | Result DQ | Q Result DQ EQ |
| | Pond 3, Treated | | | | | 1 11 | | | ND, | | 11.05 | | | | | | \top | | | | | |
| 002DIS003 | discharge | 3/4/2017 | 7.64 | 0.0 | 3.16 | ND, 0.001 | 0.002 | 84.3 | 0.005 | 0.068 | 0.047 | 0.11 | 0.002 | 19.5 | 0.471 | 0.163 | 0. | 003 | 262 | | 361 | 0.05 |
| | Pond 3, Treated | | | | | | | | ND, | | ND, | | | | | | | | | | | ND, |
| 004DIS005 | discharge | 3/10/2017 | 8.30 | 0.0 | 0.19 | 0.002 | ND, 0.001 | 362 | 0.005 | 0.015 | 0.005 | 0.12 | ND, 0.001 | 20.2 | 0.263 | 0.051 | 0. | 008 | 1040 | D | 1500 | 0.01 |
| 005010007 | Pond 3, Treated | 2/12/2017 | 7.03 | | 0.24 | 0.000 | ND 0.001 | | ND, | 0.000 | | | ND 0.001 | | | 0.000 | | 004 | 617 | | 000 | 0.01 |
| 005DIS007 | discharge | 3/13/2017 | 7.83 | 0.0 | 0.24 | 0.002 | ND, 0.001 | 231 | 0.005 | 0.029 | 0.008 | 0.04 | ND, 0.001 | 8.4 | 0.291 | 0.083 | 0. | 004 | 617 | D | 866 | 0.01 |
| 007DIS009 | Pond 3, Treated discharge | 3/16/2017 | 7.67 | 0.0 | 0.11 | 0.001 | ND, 0.001 | 362 | ND, 0.005 | 0.045 | ND, 0.005 | ND, 0.02 | ND, 0.001 | 12.2 | 0.724 | 0.110 | | 003 | 979 | ם | 1460 | ND, 0.01 |
| 007513005 | Pond 3, Treated | 3, 10, 2017 | 7.07 | 0.0 | 0.11 | 0.001 | 110, 0.001 | 302 | ND, | ND, | ND, | ND, | 110, 0.001 | 12.2 | 0.72-1 | ND, | ++- | 003 | 1 3/3 | | 1400 | ND, |
| 009DIS011 | discharge | 3/18/2017 | 8.55 | 0.0 | 3.35 | ND, 0.001 | ND, 0.001 | 209 | 0.005 | 0.005 | 0.005 | 0.02 | ND, 0.001 | 9.1 | 0.036 | 0.005 | 0. | 005 | 563 | D | 862 | 0.01 |
| | Pond 3, Treated | | | † | 1 1 | | | | ND, | | ND, | ND, | | | | + + | | | 1 | | | ND, |
| 011DIS013 | discharge | 3/20/2017 | 8.64 | 0.0 | 0.44 | ND, 0.001 | ND, 0.001 | 157 | 0.005 | 0.008 | 0.005 | 0.02 | ND, 0.001 | 7.5 | 0.251 | 0.042 | 0. | 004 | 409 | D | 623 | 0.01 |
| | Pond 3, Treated | | | | | | | | ND, | ND, | ND, | ND, | | | | | | | | | | ND, |
| 013DIS015 | discharge | 3/22/2017 | 8.80 | 0.0 | 0.89 | 0.001 | ND, 0.001 | 134 | 0.005 | 0.005 | 0.005 | 0.02 | ND, 0.001 | 7.0 | 0.140 | 0.012 | 0. | 003 | 349 | D | 560 | 0.01 |
| | Pond 3, Treated | | | | | | | | ND, | ND, | ND, | ND, | | | | ND, | | | | | | ND, |
| 014DIS017 | discharge | 3/24/2017 | 8.52 | 0.0 | 3.24 | ND, 0.001 | ND, 0.001 | 126 | 0.005 | 0.005 | 0.005 | 0.02 | ND, 0.001 | 5.7 | 0.072 | 0.005 | 0. | 003 | 288 | - | 479 | 0.01 |
| 015DIS019 | Pond 3, Treated | 2/26/2017 | 8.29 | | 2.56 | ND, 0.001 | ND 0.001 | 123 | ND, 0.005 | ND, 0.005 | ND, 0.005 | ND, 0.02 | ND 0.001 | 5.8 | 0.108 | ND, 0.005 | | 003 | 306 | | 493 | ND, 0.01 |
| 013013019 | discharge Pond 3, Treated | 3/26/2017 | 8.29 | 0.0 | 2.56 | ND, 0.001 | ND, 0.001 | 123 | ND, | 0.003 | 0.003 ND, | ND, | ND, 0.001 | 3.6 | 0.108 | 0.003 | 0. | 003 | 306 | | 493 | ND, |
| 016DIS021 | discharge | 3/28/2017 | 8.38 | 1.4 | 0.52 | ND, 0.001 | ND, 0.001 | 129 | 0.005 | 0.005 | 0.005 | 0.02 | ND, 0.001 | 6.2 | 0.183 | 0.014 | 0. | 002 | 304 | | 487 | 0.01 |
| 020010022 | Pond 3, Treated | 0,20,202. | 0.00 | | ND, | 110,01002 | 110,0000 | + | ND, | 0.000 | ND, | 1 | , | 1 | 1 1 | + | ++- | | + | | | ND, |
| 017DIS023 | discharge | 3/30/2017 | 8.22 | 3.5 | 0.03 | 0.002 | ND, 0.001 | 152 | 0.005 | 0.020 | 0.005 | 0.19 | ND, 0.001 | 7.6 | 0.466 | 0.052 | 0. | 002 | 406 | D | 602 | 0.01 |
| | Pond 3, Treated | | | | | | | 1 | ND, | | ND, | ND, | | | 1 | | + | | 1 | | | ND, |
| 018DIS026 | discharge | 4/1/2017 | 8.44 | 2.07 | 0.09 | 0.001 | ND, 0.001 | 163 | 0.005 | 0.019 | 0.005 | 0.02 | ND, 0.001 | 7.4 | 0.362 | 0.070 | 0. | 001 | 431 | D | 656 | 0.01 |
| | Pond 3, Treated | | | | | | | | ND, | ND, | ND, | ND, | | | | | | | | | | ND, |
| 019DIS028 | discharge | 4/3/2017 | 8.71 | 6.55 | 1.01 | ND, 0.001 | ND, 0.001 | 119 | 0.005 | 0.005 | 0.005 | 0.02 | ND, 0.001 | 5.1 | 0.110 | 0.020 | 0. | 002 | 314 | | 491 | 0.01 |
| | Pond 3, Treated | . /- / | | l | | | | | | | | 1 1 | | | | | | | | | | |
| 020DIS030* | discharge | 4/5/2017 | 8.20 | 5.95 | | | | | | | | | | | | + | + | | | | | |
| | Pond 3, Treated discharge, Duplicate | | | | | | | | | | | 1 1 | | | | | | | | | | |
| 020 DID031* | Sample | 4/5/2017 | 8.20 | 5.95 | | | | | | | | 1 1 | | | | | | | | | | |
| 320 010031 | Pond 3, Treated | .,3,2017 | 0.20 | 3.55 | + + + | + + | | | | | + + | | | + + + | | ++ | ++ | + | + + | $\vdash\vdash$ | | |
| 021DIS032* | discharge | 4/7/2017 | 8.27 | 4.11 | | | | | | | | | | | | | | | | | | |
| | Pond 3, Treated | | | | | + + + | | | | | | | | | | + | | | | | | |
| 022DIS033* | discharge | 4/9/2017 | 8.23 | 0.00 | | | | | | | | | | | | | | | | | | |

All values reported in milligrams per liter (mg/L) except pH which are in Standard Units and temperature which are in the units specified above.

All parameters are dissolved except Selenium which is total recoverable.

All results are preliminary NP - Not Promulgated

NA - Not Analyzed

* - Analytical results pending

Sample result exceedes USEPA Daily Maximum Discharge Criteria

Data Qualifiers (DQ) from the Laboratory:

D - Analyte reporting limit increased due to sample matrix

L - Lowest available reporting limit for the analytical method used

ND - Not detected at the reporting limit, number following ND represents the reporting limit

Table 4
2017 Spring Treatment, Leviathan Mine
Manual Remaining Freeboard Measurements

| Date | Pond | Remaining Freeboard (ft) | Precipitation | Approximate Combined Adit and PUD flow (gpm) |
|-----------|--------------|--------------------------------|---------------|--|
| 3/9/2017 | Pond 2 South | 0.29 | | |
| 3/20/2017 | Pond 2 South | 0.35 | | |
| 3/22/2017 | Pond 2 South | 0.28 | | |
| 3/23/2017 | Pond 2 South | 0.30 | | |
| 3/27/2017 | Pond 2 South | 0.32 | | |
| 3/28/2017 | Pond 2 South | 0.40 | | |
| 3/29/2017 | Pond 2 South | 0.42 | | |
| 3/30/2017 | Pond 2 South | 0.40 | Yes | 80 |
| 4/3/2017 | Pond 2 South | 0.35 | No | 85 |
| 4/4/2017 | Pond 2 South | 0.36 | No | 85 |
| 4/5/2017 | Pond 2 South | 0.35 | No | 94 |
| 4/6/2017 | Pond 2 South | 0.35 | No | 100 |
| 4/7/2017 | Pond 2 South | 0.14 | Yes | 107 |
| 4/9/2017 | Pond 2 South | 0.0 | No | 107 |
| 4/10/2017 | Pond 2 South | 0.0 | No | 107 |

